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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/703,486	10/31/2000	Magnus Hollstrom	34650-602PT	2943

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EXAMINER

SAFAIPOUR, HOUSHANG

ART UNIT	PAPER NUMBER
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2622

DATE MAILED: 01/20/2004

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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/703,486

Applicant(s)

HOLLSTROM, MAGNUS

Examiner

Houshang Safaipour

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-43 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-43 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 31 October 2000 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 13) ☒ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
- a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 7&8.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Specification

The disclosure is objected to because of the following informalities: Missing application numbers on pages 2 and 3.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-27 and 29-42 are rejected under 35 U.S.C. 102 (b) as being anticipated by Lazzouni et al. (U.S. Patent No. 5,652,412).

Regarding claim 1, Lazzouni et al. discloses an electronic reading device, comprising:
a reading sensor for detecting at least a portion of information printed on a surface and an associated portion of an address pattern included on the surface, wherein a position of the reading sensor relative to the address pattern can be determined from the detected portion of the address pattern, said reading sensor operating to forward the detected portion of the printed information and the detected portion of the address pattern associated therewith (col. 4 line 8 through col. 6 line 65).

Regarding claim 2, Lazzouni et al. discloses the electronic reading device of claim 1, wherein the detected portion of the printed information is printed on a surface having a

preprinted address pattern (col. 6, lines 35-46).

Regarding claim 3, Lazzouni et al. discloses the electronic reading device of claim 1, wherein the address pattern is superimposed on a surface having preexisting printed information (col. 4, lines 46-50).

Regarding claim 4, Lazzouni et al. discloses the electronic reading device of claim 1, wherein the address pattern comprises a pattern of dots (col. 6, lines 35-37).

Regarding claim 5, Lazzouni et al. discloses the electronic reading device of claim 1, wherein the reading sensor comprises a first sensor for detecting portions of the printed information and a second sensor for detecting portions of the address pattern (col. 5 line 55 through col. 6 line 7).

Regarding claim 6, Lazzouni et al. discloses the electronic reading device of claim 1, wherein the printed information reflects light in a first part of the light spectrum and the address pattern reflects light in a second part of the light spectrum, the first part of the light spectrum at least partially non-overlapping with the second part of the light spectrum (col. 5, line 35 through col. 6 line 34).

Regarding claim 7, Lazzouni et al. discloses the electronic reading device of claim 6, wherein the first part of the light spectrum and the second part of the light spectrum each comprise at least a portion of at least one of the visible light spectrum, the ultraviolet spectrum, and the infrared spectrum (col. 5, lines 13-43).

Regarding claim 8, Lazzouni et al. discloses the electronic reading device of claim 6, wherein the reading sensor comprises:

a first sensor for detecting light in the first part of the light spectrum; and a second sensor

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for detecting light in the second part of the light spectrum (col. 5, line 55 through col. 6 line 7).

Regarding claim 9, Lazzouni et al. discloses the electronic reading device of claim 6, further comprising a light emitter operating to emit light in at least one of the first part of the light spectrum and the second part of the light spectrum (col. 5, lines 35-43).

Regarding claim 10, Lazzouni et al. discloses the electronic reading device of claim 9, wherein the light emitter emits a wide spectrum light and the reading sensor comprises a plurality of sensors, at least one of the plurality of sensors including a filter for filtering out one of the first part of the light spectrum and the second part of the light spectrum (col. 5, line 35 through col. 6, line 7).

Regarding claim 11, Lazzouni et al. discloses the electronic reading device of claim 9, wherein the light emitter includes:

a first light emitting diode operating to emit an infrared light; and a second light emitting diode operating to emit a non-infrared light (col. 5, lines 13-54).

Regarding claim 12, Lazzouni et al. discloses the electronic reading device of claim 11, wherein the first light emitting diode and the second light emitting diode are alternately activated (col. 5, lines 35-43).

Regarding claim 13, Lazzouni et al. discloses the electronic reading device of claim 1, wherein the electronic reading device comprises a hand scanner (col. 4 lines 8-62).

Regarding claim 14, Lazzouni et al. discloses the electronic reading device of claim 1, wherein the reading sensor forwards the detected printed information and the detected portion of the address pattern associated therewith to a processor, said processor operating to generate an electronic copy of the printed information by determining positions of the detected printed

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information using the associated portions of the address pattern (col. 8, line 65 through col. 9, line 27).

Regarding claim 15, Lazzouni et al. discloses a system for reading printed information, comprising:

a formatted surface including an address pattern and printed information, wherein a position relative to the address pattern can be determined from an examination of only a portion of the address pattern ; and an electronic reading device including a reading sensor for substantially simultaneously detecting at least a portion of the printed information and a corresponding portion of the address pattern (col. 5, line 55 through col. 6, line 45).

Regarding claim 16, Lazzouni et al. discloses the system of claim 15, wherein the formatted surface comprises a sheet of paper (col. 4, lines 43-46).

Regarding claim 17, Lazzouni et al. discloses the system of claim 15, wherein the formatted surface comprises a display screen, the printed information and the address pattern displayed on the display screen (col. 4, lines 43-50).

Regarding claim 18, Lazzouni et al. discloses the system of claim 15, wherein the formatted surface comprises a display screen, the printed information displayed on the display screen and the address pattern preprinted on the display screen (col. 4, lines 43-50).

Regarding claim 19, Lazzouni et al. discloses the system of claim 15, further comprising a processor for generating an electronic copy of the printed information by determining a location of each portion of the detected printed information based on the corresponding portion of the address pattern (col. 8, line 54 through col. 9, line 27).

Regarding claim 20, Lazzouni et al. discloses the system of claim 19, wherein the

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processor can generate a substantially exact electronic copy of the printed information regardless of the number of times and the direction in which the reading sensor is moved across the formatted surface (col. 8, line 54 through col. 9, line 27).

Regarding claim 21, Lazzouni et al. discloses the system of claim 19, wherein, when only parts of the printed information are detected, the processor can determine a substantially exact distance between the detected parts of the printed information (col. 8, line 54 through col. 9, line 27).

Regarding claim 22, Lazzouni et al. discloses the system of claim 19, further comprising a memory for storing an electronic copy of the address pattern for use in generating the electronic copy of the printed information (col. 8, line 54 through col. 9, line 27).

Regarding claim 23, Lazzouni et al. discloses the system of claim 22, wherein the processor generates the electronic copy of the printed information by mapping detected portions of the printed information onto the stored copy of the address pattern (col. 8, line 65 through col. 9, line 27).

Regarding claim 24, Lazzouni et al. discloses the system of claim 19, wherein the electronic reading device further comprises a light emitter for emitting a broad spectrum light and the reading sensor comprises a plurality of sensors, wherein at least one of the sensors includes a filter for filtering out a portion of the light spectrum, each sensor that includes a filter detecting one of the printed information and the address pattern and each sensor that does not include a filter detecting the other of the printed information and the address pattern (please refer to claim 1).

Regarding claims 25 and 26, the arguments analogous to those presented for claim 9 are

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applicable to claims 25 and 26.

Regarding claim 27, Lazzouni et al. discloses the system of claim 26, wherein the first light emitter and the second light emitter are alternatively activated (col. 5, lines 34-43).

Regarding claim 29 the arguments analogous to those presented for claim 1 are applicable to claim 29.

Regarding claim 30, Lazzouni et al. discloses the method of claim 29, wherein the surface comprises a display screen, further comprising the step of generating the image on the display screen (col. 4, lines 43-50).

Regarding claim 31, Lazzouni et al. discloses the method of claim 30, further comprising the step of generating the address pattern on the display screen (col. 4, lines 43-50).

Regarding claim 32, Lazzouni et al. discloses the method of claim 29, wherein the surface comprises a formatted paper (col. 4, lines 14-42).

Regarding claims 33 and 35 the arguments analogous to those presented for claims 1 and 6 are applicable to claims 33 and 35 respectively.

Regarding claim 34 the arguments analogous to those presented for claim 23 are applicable to claim 34.

Regarding claims 36 and 37 the arguments analogous to those presented for claim 6 are applicable to claims 36 and 37.

Regarding claim 38, Lazzouni et al. discloses the method of claim 37, further comprising the step of illuminating the surface with a wide spectrum light (col. 5, lines 13-54).

Regarding claims 39 and 40 the arguments analogous to those presented for claim 6 are applicable to claims 39 and 40.

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Regarding claim 41, Lazzouni et al. discloses the method of claim 40, further comprising alternating between the step of detecting the at least a portion of the image and the step of detecting the corresponding portion of the address pattern (col. 5, line 13 through col. 7, line 22).

Regarding claim 42 the arguments analogous to those presented for claim 41 are applicable to claim 42.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 28 and 43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lazzouni et al. (U.S. Patent 5,652,412).

Regarding claim 28 Lazzouni et al. does not disclose the system of claim 15, further comprising a processor for generating an output based on the detected printed information and the detected portions of the address pattern, wherein the output is selected from the group consisting of sound, text, and an image. However, generating an output selected from sound, text and image in conjunction with an electronic pen is well known in the art (Official Notice). Therefore, it would have been obvious to a person of an ordinary skill in the art at the time the invention was made to utilize such a device in Lazzouni's pen and paper information recording system, because, this addition would enhance Lazzouni's design.

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Regarding claim 43 the arguments analogous to those presented for claim 28 are applicable to claim 43.


Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Houshang Safaipour whose telephone number is (703)306-4037. The examiner can normally be reached on Mon.-Thursday from 6:30am to 5:00pm..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward L Coles, Sr. can be reached on (703) 305-4712. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 306-0377.

Houshang Safaipour
Patent Examiner
Art Unit 2622
January 8, 2004


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